

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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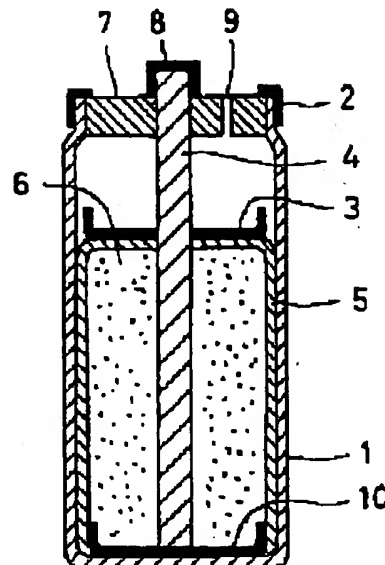
APPLICATION DATE : 14-02-92  
APPLICATION NUMBER : 04075088

APPLICANT : TOSHIBA BATTERY CO LTD;

INVENTOR : CHIBA NOBUAKI;

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TITLE : MAGNESIUM-MANGANESE DIOXIDE  
DRY BATTERY



ABSTRACT : PURPOSE: To improve large current discharge characteristics by using chemically activated manganese dioxide mainly composed of  $\gamma$  type crystals containing 0.4wt.% to 6.0wt.% of barium.

CONSTITUTION: A positive electrode material is caused to contain chemically activated manganese dioxide mainly composed of  $\gamma$  type crystals containing 0.4wt.% to 6.0wt.% of barium. A bottomed cylindrical magnesium can 1 as a negative electrode in common is filled with a positive electrode mix 6 so obtained via a separator 5. A carbon rod 4 is inserted through the center of the mix 6 and extended to the vicinity of the top of the can 1 for coupling to the through-hole of a polyethylene sealing plate 7 to seal the opening of the can 1. Also, the plate 7 has a vent 9 filled with wax. Furthermore, a metal cap 8 as a positive electrode terminal in common is coupled to the top of the rod 4 and the upper periphery of the can 1 is sealed with a metal ring 2. Also, an insulation bottom sheet 10 is laid on the inner bottom of the can 1, while an insulation collared sheet 3 is laid on the mix 6. As a result, large current discharge performance can be particularly improved.

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